

International Application No
PCT/GB 03/03923

IPC 7 C07D239/90 C07D239/94 C07C255/54 C07C255/59

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WO 96 33980 A (ZENECA LTD ;GIBSON KEITH HOPKINSON (GB)) 31 October 1996 (1996-10-31) cited in the application page 12, line 23 -page 14, line 27; claims 1,6,12,16; example 1</p> <p>---</p>	1-29
Y	<p>EP 0 566 226 A (ZENECA LTD) 20 October 1993 (1993-10-20) examples, in particular example 67, claims 1,10</p> <p>---</p> <p style="text-align: center;">-/--</p>	1-29

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of olted documents :

- *"A" document defining the general state of the art which is not considered to be of particular relevance
- *"E" earlier document but published on or after the international filing date
- *"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *"O" document referring to an oral disclosure, use, exhibition or other means
- *"P" document published prior to the international filing date but later than the priority date claimed

* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *A* document member of the same patent family

Date of the actual completion of the international search

13 January 2004

Date of mailing of the international search report

26/01/2004

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>HENNEQUIN L F ET AL: "Novel 4-anilinoquinazolines with C-7 basic side chains: Design and structure activity relationship of a series of potent, orally active, VEGF receptor tyrosine kinase inhibitors"</p> <p>JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 45, no. 6, 14 March 2002 (2002-03-14), pages 1300-1312, XP002256124 ISSN: 0022-2623 Compound 7 in table 1, scheme 3 page 1310, column 2</p>	1-29
Y	<p>WO 02 00649 A (JUNG FREDERIC ;MORTLOCK ANDREW (GB); ASTRAZENCA AB (SE)) 3 January 2002 (2002-01-03) page 77 -page 79; claims 1,2</p>	1-29
X	<p>WO 99 10349 A (LOHMANN JEAN JACQUES MARCEL ;PLE PATRICK (FR); HENNEQUIN LAURENT F) 4 March 1999 (1999-03-04) abstract; example 1</p>	18
X	<p>WO 01 04102 A (PLE PATRICK ;HENNEQUIN LAURENT FRANCOIS AND (FR); LAMBERT CHRISTIN) 18 January 2001 (2001-01-18) no 1-4 of table VI (example 25, pp 128-130). abstract</p>	18
X	<p>PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01, 31 January 2000 (2000-01-31) & JP 11 292855 A (UBE IND LTD), 26 October 1999 (1999-10-26) cited in the application abstract and paragraphs 032-35</p>	21

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-17, 18(part), 19, 20, 21(part), 22, 23(part), 24, 25, 26(part), 27, 28(part), 29

The problem of the first invention appears to be the provision of a better process for the preparation of the known antiproliferative quinazoline derivative I and to the use of specific intermediates therein, some intermediates per se as well as their preparation.

2. Claim : 18(part)

The second invention appears to relate to the use of the compound II for the preparation of pharmacologically effective quinazoline derivatives other than I.

3. Claim : 21(part)

The third invention appears to relate to the use of the intermediate compound V in the preparation of further pharmacologically effective quinazoline derivatives other than I.

4. Claim : 23(part)

The fourth invention appears to relate to the use of the known compound IV to prepare pharmacologically effective quinazoline derivatives other than I.

5. Claim : 26(part)

The fifth invention appears to relate to the use of the known compound III to prepare pharmacologically effective quinazoline derivatives other than I.

6. Claim : 28(part)

The sixth invention appears to relate to the use of the known compound IX to prepare pharmacologically effective quinazoline derivatives other than I.

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